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Device Supply Chain Source System Data Integration Interface Specifications  
- DTAC

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**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Revision Date** | **Author / Reviewer** | **Summary of changes** | **Remarks** |
| 0.1 | 26.07.2019 | Chandrima/Hirak | First Draft Version | For DTAC Review |
| 1.0 | 05.08.2019 | Hirak Sen | 1) DTAC review comments updated.  2) Derived fields removed as per DTAC’s Comments.  3) Added the ‘File Feed List’ Table with file length Size | For DTAC Review |
| 1.1 | 20.08.2019 | Hirak Sen | Inclusion of 2nd set of Review comments shared by DTAC | For DTAC Review |
| 1.2 | 28.08.2019 | Hirak | Inclusion of review comments shared by DTAC during Review Session | For DTAC Review |
| 1.3 | 02.09.2019 | Hirak | Inclusion of review comments shared by DTAC during Review Session | For DTAC Review |
| 1.4 | 18.11.2019 | Hirak/Chandrima | Landing server path corrected as per revision done in BUName\_SourceSystemSummary\_DTAC\_V 0.1.1.xlsx | For DTAC Review |
| 1.5 | 09.04.2020 | Sutham | Updated 6 more feeds where BU source system 1.2 | For DTAC Review |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

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| Project Name | TELENOR - AEP |
| Account | Telenor - DTAC |
| Current Version | 1.4 |
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Referenced Documents

| **#** | **Document Name** | **Document Description** | **Document Type/Drop#** | **Version** |
| --- | --- | --- | --- | --- |
| 1 | BUName\_SourceSystemSummary\_DTAC\_V 0.0.9.xlsx | This document captures the source feed technical details and its data structures | Excel File | 0.9 |
| 2 | AEP - Source System Ingest Data.xlsx | This document contains source system data ingestion path and server for DEV/SIT/PROD | Excel File | - |
| 3 | SourceFeed1.xlsx | Holds EDW file wise control file mapping per As-IS BI Process | Excel File | - |
| 4 | BUName\_SourceSystemSummary\_DTAC\_V 0.1.1.xlsx | This document captures the source feed technical details and its data structures | Excel File | 1.1 |
|  |  |  |  |  |

Terminologies & Acronyms

| **Acronyms Used** | **Description** |
| --- | --- |
| ODS | Operational Data store |
| AEP | Analytics Enablement Program |
| DSC | Device Supply Chain |

# Overview

This document contains information and specification for Source System (Device Supply Chain) for Data Integration into ODS layer. The purpose of this document is to describe the design of output interfaces from Device Supply Chain (Source system) to AEP platform (Data Integration).

The specification document will capture all the source feed details, their frequencies, naming conventions and their corresponding rules like exception handling, transformation rule, filtration rule if any, surrogate key and encryption logic.

## 1.1 Interface Diagram

TIER - 1

ODS – Vertica Vertica

AEP Landing Path

DSC(DISCOVERY)

ETL TOOL

ODS- Hadoop

Pull

EDW Landing Path(pladius22)

## 1.2 File Feed List

The below table captures the list of files which will be integrated from DISCOVERY as part of first phase of ODS go-live.

| **#** | **Feed Name** | **File Name** | **File Format** | **Source System Notification Mail\_Group** | **Source System Contact Point** |
| --- | --- | --- | --- | --- | --- |
| 1 | DCVRY\_SELL\_IN | SELLIN\_<YYYYMMDD>\_\*.dat | .dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |
| 2 | DCVRY\_SELL\_OUT | SELLOUT\_<YYYYMMDD>\_\*.dat | .dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |
| 3 | DCVRY\_ALLC | ALLC\_<YYYYMMDD>\_\* | dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |
| 4 | DCVRY\_EVOUCHER\_DISCOUNT | EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\* | dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |
| 5 | DCVRY\_INVENTORYSTOCK | INVENTORYSTOCK\_<YYYYMMDD>\_\* | dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |
| 6 | DCVRY\_MARGIN\_ANALYSIS | MARGIN\_ANALYSIS\_<YYYYMMDD>\_\* | dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |
| 7 | DCVRY\_PRODUCT\_CLASS | PRODUCT\_CLASS\_<YYYYMMDD>\_\* | dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |
| 8 | DCVRY\_PRODUCT\_SKU | PRODUCT\_SKU\_<YYYYMMDD>\_\* | dat | BSS-CorporateApplicationOperationTeamBAS@dtac.co.th <BSS-CorporateApplicationOperationTeamBAS@dtac.co.th>; | thanasate.bokam@dtac.co.th |

## 1.3 File Transfer Mechanism

Device Supply Change source system will push the data into EDW Landing server-pladius22 , AEP has to pull the data from pladius22 to AEP landing zone. Broadly, the following steps will be carried out as part of the file transfer mechanism:

1. DISCOVERY will generate two files one with .dat extension and other with . sync extension for the control files for each feed per day. Following are the lists of files

| **Data File Name** | **Data File Format** | **Control File Name** | **Control File Format** |
| --- | --- | --- | --- |
| SELLIN\_YYYYMMDD\_\*.dat | .dat | SELLIN\_YYYYMMDD\_\*.sync | .sync |
| SELLOUT\_YYYYMMDD\_\*.dat | .dat | SELLOUT\_YYYYMMDD\_\*.sync | .sync |
| ALLC\_<YYYYMMDD>\_\* | dat | ALLC\_<YYYYMDD>\_\*.sync | .sync |
| EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\* | dat | EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\* | .sync |
| INVENTORYSTOCK\_<YYYYMMDD>\_\* | dat | INVENTORYSTOCK\_<YYYYMMDD>\_\* | .sync |
| MARGIN\_ANALYSIS\_<YYYYMMDD>\_\* | dat | MARGIN\_ANALYSIS\_<YYYYMMDD>\_\* | .sync |
| PRODUCT\_CLASS\_<YYYYMMDD>\_\* | dat | PRODUCT\_CLASS\_<YYYYMMDD>\_\* | .sync |
| PRODUCT\_SKU\_<YYYYMMDD>\_\* | dat | PRODUCT\_SKU\_<YYYYMMDD>\_\* | .sync |

1. File will be transferred from EDW Landing area-on pladius22 using FTP protocol in uncompressed form.
2. There will be separate folder created for each day where the files will be Pulled inside AEP- Landing zone. Folder structure as below:
   1. For Raw Data files path should be /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/
   2. For Control File path should be /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/
3. As soon as file gets picked for processing, it will be moved to processed folder. Once the file is processed successfully, the original file will be moved to ‘Archive’ folder where the file will be retained as per data retention period. Archive folder will contain all the raw files.
4. No Header & footer available inside the feed files.
5. Device Supply Change -Discovery Source system is responsible to provide the correct data.
6. All transaction files will have transaction data for the previous day.
7. Available Source file path @ EDW Landing zone is mentioned in the below table-

| **#** | **Feed Name** | **File Name** | **Source File path – PROD** |
| --- | --- | --- | --- |
| 1 | DCVRY\_SELL\_IN | SELLIN\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/SELLIN\_<YYYYMMDD>\_\*.dat |
| 2 | DCVRY\_SELL\_OUT | SELLOUT\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/SELLOUT\_<YYYYMMDD>\_\*.dat |
| 3 | DCVRY\_ALLC | ALLC\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/ALLC\_<YYYYMMDD>\_\*.dat |
| 4 | DCVRY\_EVOUCHER\_DISCOUNT | EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\*.dat |
| 5 | DCVRY\_INVENTORYSTOCK | INVENTORYSTOCK\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/INVENTORYSTOCK\_<YYYYMMDD>\_\*.dat |
| 6 | DCVRY\_MARGIN\_ANALYSIS | MARGIN\_ANALYSIS\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/MARGIN\_ANALYSIS\_<YYYYMMDD>\_\*.dat |
| 7 | DCVRY\_PRODUCT\_CLASS | PRODUCT\_CLASS\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/PRODUCT\_CLASS\_<YYYYMMDD>\_\*.dat |
| 8 | DCVRY\_PRODUCT\_SKU | PRODUCT\_SKU\_<YYYYMMDD>\_\*.dat | /EDW/nfsedw101/INPUT/DISCOVERY/PRODUCT\_SKU\_<YYYYMMDD>\_\*.dat |

## 1.4 ODS Table Naming convention

* Transaction Table : DWO\_<Application\_System>\_<feed\_name>
* Dimension / Master Table : DIM\_<Application\_System>\_<feed\_name>

# Assumptions

1. Master data file will be Pushed to the EDW landing path on a daily basis even if there is no new records created.
2. For multiple transaction files which are of same feed will be Pushed once in a day to the EDW landing path.
3. Files are required to be send to existing platform and new platform concurrently until AEP is stabilize. However Existing file formats remains the same in both the platform.
4. File count validation cannot be done for source feed which are not having any control file.  
   No process currently in DTAC.
5. This Source data server path details are considered as is with current BI system, any change in setup will have impact on the data ingestion configuration mechanism.

# Interface Details

## 3.1 Details of Source Feeds

|  |  |
| --- | --- |
| Interface Number |  |
| Interface Name | **DSC** |
| Interface Owner | Refer to section 1.2 on feed wise Ownership details |

### Source Feed Files

The below table captures the list of files which will be integrated from Discovery as part of first phase of ODS go-live.

| **#** | **Feed Name** | **File Name** | **File Format** | **Char set** | **Conv?** | **File Type** | **Frequency** | **Mechanism of File Transfer** | **No. of files EOD** | **DELI MITER** | **Extract type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | DCVRY\_SELL\_IN | SELLIN\_<YYYYMMDD>\_\*.dat | dat |  | N | Transaction | DAILY | Pull | 1 | | | Incremental |
| 2 | DCVRY\_SELL\_OUT | SELLOUT\_<YYYYMMDD>\*.dat | dat | ISO-8859-11 | Y | Transaction | DAILY | Pull | 1 | | | Incremental |
| 3 | DCVRY\_ALLC | ALLC\_<YYYYMMDD>\_\* | dat |  | N | Transaction | DAILY | Pull | 1 | | | Incremental |
| 4 | DCVRY\_EVOUCHER\_DISCOUNT | EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\* | dat | ISO-8859-11 | Y | Transaction | DAILY | Pull | 1 | | | Incremental |
| 5 | DCVRY\_INVENTORYSTOCK | INVENTORYSTOCK\_<YYYYMMDD>\_\* | dat |  | N | Transaction | DAILY | Pull | 1 | | | Incremental |
| 6 | DCVRY\_MARGIN\_ANALYSIS | MARGIN\_ANALYSIS\_<YYYYMMDD>\_\* | dat | ISO-8859-11 | Y | Transaction | DAILY | Pull | 1 | | | Incremental |
| 7 | DCVRY\_PRODUCT\_CLASS | PRODUCT\_CLASS\_<YYYYMMDD>\_\* | dat | ISO-8859-11 | Y | Master | DAILY | Pull | 1 | | | Full + Incremental |
| 8 | DCVRY\_PRODUCT\_SKU | PRODUCT\_SKU\_<YYYYMMDD>\_\* | dat | ISO-8859-11 | Y | Master | DAILY | Pull | 1 | | | Full + Incremental |

#### 3.1.1.1 Interface Characteristic

|  |  |
| --- | --- |
| Source Feed Name | All source feeds |
| Source Feed Description | See Section 3.1.1 on Source feed mapping |
| File Type  (Transaction / Reference) | Transaction |
| Collection Mechanism (Push / Pull) | Pull |
| Extraction Criteria | Daily Full Dump/ Incremental [ Check section 3.1.2 on individual feed wise details] |
| Collection Protocol | **SFTP** |
| File frequency /Collection Frequency | Daily once [refer to Section 4.1 for details] |
| File Format | “|” delimited File.  File extension is .dat |
| Control File available? (Yes / No) | Yes [refer to Section 3.1.3 for detail] |
| Header Record Available? | No |
| Footer Record Available? | No |
| Retention Period at Source | 7 days [FILE Level] |

#### 3.1.1.2 Environment Details & Access Details

|  |  |
| --- | --- |
| Production IP Address |  |
| Production Port | TBD |
| Production User Name | TBD |
| Production Source Folder | Production Source Folder should be identify the actual path :  Server : Pladius22  Data file Path : /EDW/nfsedw101/INPUT/DISCOVERY/  Control file Path : / EDW/nfsedw101/INPUT/DISCOVERY/ |

#### 3.1.1.3 Information required for first time loading & data transfer

For Transaction feeds the data from ODS will start from date of GO-LIVE of ODS.

Historical data load and Data Purging guidelines for Feeds Files as per below table

| **#** | **Feed Name** | **File Name** | **File Format** | **Historical Load** | **Data Purging** |
| --- | --- | --- | --- | --- | --- |
| 1 | DCVRY\_SELL\_IN | SELLIN\_<YYYYMMDD>\_\*.dat | dat | No | 1 Year |
| 2 | DCVRY\_SELL\_OUT | SELLOUT\_<YYYYMMDD>\*.dat | dat | All | 1 Year |
| 3 | DCVRY\_ALLC | ALLC\_<YYYYMMDD>\_\* | dat |  | 6 Months |
| 4 | DCVRY\_EVOUCHER\_DISCOUNT | EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\* | dat |  | 6 Months |
| 5 | DCVRY\_INVENTORYSTOCK | INVENTORYSTOCK\_<YYYYMMDD>\_\* | dat |  | 6 Months |
| 6 | DCVRY\_MARGIN\_ANALYSIS | MARGIN\_ANALYSIS\_<YYYYMMDD>\_\* | dat |  | 6 Months |
| 7 | DCVRY\_PRODUCT\_CLASS | PRODUCT\_CLASS\_<YYYYMMDD>\_\* | dat |  | 6 Months |
| 8 | DCVRY\_PRODUCT\_SKU | PRODUCT\_SKU\_<YYYYMMDD>\_\* | dat |  | 6 Months |



#### Header Record Format

Header not available for this feed.

#### Footer Record Format

Footer not available for this Feed.

#### File count Check

Refer to Section 3.1.1 for No. of files EOD available for each feed.

#### Feed to Table Mapping

Following table depicts the proposed Device Supply Chain feeds mapping to TIER 1 (ODS) target table.

| **#** | **Feed Name** | **TIER1 (ODS) Table Name** | **File Size** | **Volume Per Day** | **File Type** |
| --- | --- | --- | --- | --- | --- |
| 1 | DCVRY\_SELL\_IN | DWO\_DCVRY\_SELL\_IN | 18,506 | 49 | Transaction |
| 2 | DCVRY\_SELL\_OUT | DWO\_DCVRY\_SELL\_OUT | 1,616,732 | 4487 | Transaction |
| 3 | DCVRY\_ALLC | DWO\_DCVRY\_ALLC | 111,976.8 | 401.79 | Transaction |
| 4 | DCVRY\_EVOUCHER\_DISCOUNT | DWO\_DCVRY\_EVOUCHER\_DISCOUNT | 4,933.6 | 121.96 | Transaction |
| 5 | DCVRY\_INVENTORYSTOCK | DWO\_DCVRY\_INVENTORYSTOCK | 19,756,778.4 | 117,402.92 | Transaction |
| 6 | DCVRY\_MARGIN\_ANALYSIS | DWO\_DCVRY\_MARGIN\_ANALYSIS | 413,258.4 | 2,465.57 | Transaction |
| 7 | DCVRY\_PRODUCT\_CLASS | DIM\_DCVRY\_PRODUCT\_CLASS | 44,751.2 | 740.28 | Master |
| 8 | DCVRY\_PRODUCT\_SKU | DIM\_DCVRY\_PRODUCT\_SKU | 7,084,408.8 | 47,591.59 | Master |



### Source Feed wise - Record Format

##### DWO\_DCVRY\_SELL\_IN

This feed provides Device sell in transaction

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | COMPANY\_CODE | VARCHAR2(10) | dtn |
| 2 | DOCUMENT\_NUMBER | VARCHAR2(50) | TR19000068572 |
| 3 | TRANSACTION\_DTTM | DATETIME | 7/10/2019 12:59 |
| 4 | TRANSACTION\_TYPE | VARCHAR2(5) | TF |
| 5 | TRANSACTION\_TYPE\_DESC | VARCHAR2(100) | Transfer from distributor to Retailer |
| 6 | FROM\_WAREHOSE\_CODE | VARCHAR2(50) | N03076 |
| 7 | FROM\_PARTNER\_CODE | VARCHAR2(32) | 78489163 |
| 8 | FROM\_CHANNEL\_TYPE\_CODE | VARCHAR2(20) | 13 |
| 9 | FROM\_CHANNEL\_SUB\_TYPE\_CODE | VARCHAR2(20) | 1302 |
| 10 | FROM\_PARTNER\_GROUP\_CODE | VARCHAR2(30) | SHV\_COCO |
| 11 | FROM\_PARTNER\_TYPE\_CODE | VARCHAR2(20) | 130202 |
| 12 | FROM\_RTR\_TYPE\_CODE | VARCHAR2(20) | 775 |
| 13 | FROM\_RTR\_SUB\_TYPE\_CODE | VARCHAR2(20) | 812 |
| 14 | TO\_WAREHOSE\_CODE | VARCHAR2(50) | N02131 |
| 15 | TO\_PARTNER\_CODE | VARCHAR2(32) | 71438936 |
| 16 | TO\_CHANNEL\_TYPE\_CODE | VARCHAR2(20) | 13 |
| 17 | TO\_CHANNEL\_SUB\_TYPE\_CODE | VARCHAR2(20) | 1302 |
| 18 | TO\_PARTNER\_GROUP\_CODE | VARCHAR2(50) | SHV\_COCO |
| 19 | TO\_PARTNER\_TYPE\_CODE | VARCHAR2(20) | 130202 |
| 20 | TO\_RTR\_TYPE\_CODE | VARCHAR2(20) | 775 |
| 21 | TO\_RTR\_SUB\_TYPE\_CODE | VARCHAR2(20) | 812 |
| 22 | PRODUCT\_CODE | VARCHAR2(32) | OPH00F11GN0 |
| 23 | SERIAL\_NUMBER | VARCHAR2(40) | 866988046639174 |
| 24 | IMEI\_NUMBER | VARCHAR2(40) | 866988046639174 |
| 25 | SIM\_SERIAL | VARCHAR2(40) |  |
| 26 | SOURCE\_NM | VARCHAR2(20) | Discovery |
| 27 | CREATED\_DTTM | DATETIME | 7/10/2019 12:59 |
| 28 | CREATED\_BY | VARCHAR2(50) | NDSCSSRS |

##### DWO\_DCVRY\_SELL\_OUT

This feed provides Device sell out transaction

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | COMPANY\_CODE | VARCHAR2(10) | dtn |
| 2 | DOCUMENT\_NUMBER | VARCHAR2(50) | CNVN02131191005502 |
| 3 | DOCUMENT\_DTTM | DATETIME | 7/10/2019 16:05 |
| 4 | TRANSACTION\_TYPE | VARCHAR2(5) | SR |
| 5 | SUBSCRIBER\_NUMBER | VARCHAR2(20) | 66897766923 |
| 6 | STORE\_NUMBER | VARCHAR2(20) | N02131 |
| 7 | CUSTOMER\_NAME | VARCHAR2(100) | นาย พิชัย กลิ่นประทุม . |
| 8 | CUSTOMER\_ADDRESS | VARCHAR2(255) | 59/57ม.19หมู่บ้านไทยธานี ซ.25 ต.คลองหนึ่ง อ.คลองหลวง, จังหวัดปทุมธานี 12120 THA |
| 9 | AMPHUR\_CODE | VARCHAR2(20) |  |
| 10 | AMPHUR\_NAME | VARCHAR2(100) | อ.คลองหลวง |
| 11 | PROVINCE\_CODE | VARCHAR2(20) | 13 |
| 12 | PROVINCE\_NAME | VARCHAR2(100) | จังหวัดปทุมธานี |
| 13 | POSTCODE | VARCHAR2(10) | 12120 |
| 14 | CUSTOMER\_TYPE | VARCHAR2(100) | POS Guest . |
| 15 | OTHER\_CONTACT | VARCHAR2(100) |  |
| 16 | SALESPERSON\_CODE | VARCHAR2(100) | 02131B107@dtac.co.th |
| 17 | PRODUCT\_CODE | VARCHAR2(32) | IPH6PS32GY0 |
| 18 | BRAND | VARCHAR2(100) | APPLE |
| 19 | MODEL | VARCHAR2(100) | DTAC IPHONE 6S PLUS 32GB |
| 20 | IMEI\_NUMBER | VARCHAR2(40) | 866988046639174 |
| 21 | SIM\_SERIAL | VARCHAR2(40) |  |
| 22 | PACKAGE\_CODE | VARCHAR2(30) |  |
| 23 | PROMOTION\_TYPE | VARCHAR2(100) |  |
| 24 | DISCOUNT\_AMOUNT\_HEADER | NUMBER(38,2) | 0 |
| 25 | DISCOUNT\_AMOUNT\_LINE | NUMBER(38,2) | 0 |
| 26 | UNIT\_AMOUNT | NUMBER(38,2) | 11900 |
| 27 | SALE\_AMOUNT | NUMBER(38,2) | -11900 |
| 29 | INVOICE\_AMOUNT | NUMBER(38,2) | -11900 |
| 30 | PARTNER\_CODE | VARCHAR2(32) | 71438936 |
| 31 | CHANNEL\_TYPE\_CODE | VARCHAR2(20) | 13 |
| 32 | CHANNEL\_TYPE\_DESC | VARCHAR2(60) | Branded Channel |
| 33 | CHANNEL\_SUB\_TYPE\_CODE | VARCHAR2(20) | 1302 |
| 34 | CHANNEL\_SUB\_TYPE\_DESC | VARCHAR2(60) | Service Hall |
| 35 | PARTNER\_GROUP\_CODE | VARCHAR2(50) | SHV\_COCO |
| 36 | PARTNER\_GROUP\_NAME | VARCHAR2(100) | Service hall and COCO |
| 37 | PARTNER\_TYPE\_CODE | VARCHAR2(20) | 130202 |
| 38 | PARTNER\_TYPE\_NAME | VARCHAR2(60) | RETLR |
| 39 | RTR\_TYPE\_CODE | VARCHAR2(20) | 775 |
| 40 | RTR\_TYPE\_NAME | VARCHAR2(60) | Service Hall |
| 41 | RTR\_SUB\_TYPE\_CODE | VARCHAR2(20) | 812 |
| 42 | RTR\_SUB\_TYPE\_NAME | VARCHAR2(60) | Hall\_COCO |
| 43 | CREATED\_DTTM | DATETIME | 7/10/2019 16:05 |
| 44 | CREATED\_BY | VARCHAR2(50) | NDSCPOSA |
| 45 | SOURCE\_NM | VARCHAR2(50) | Discovery |
| 46 | CUSTOMER\_NUMBER | VARCHAR2(50) |  |
| 47 | WITH\_PROMOTION | VARCHAR2(20) | N |
| 48 | PRODUCT\_NAME | VARCHAR2(255) | IPHONE 6S PLUS 32GB |
| 49 | CAMPAIGN\_NAME | VARCHAR2(512) |  |
| 50 | WAREHOUSE\_NAME | VARCHAR2(256) | dtac hall ฟิวเจอร์พาร์ครังสิต |
| 51 | REF\_SELL\_RETURN | VARCHAR2(50) |  |
| 52 | DTAC\_COST | NUMBER(38,2) | 10075.43 |
| 53 | SELL\_IN\_PRICE\_FOFO | NUMBER(38,2) | 0 |

##### DWO\_DCVRY\_ALLC

This feed provides Device allocation transaction

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | COMPANY\_CODE | VARCHAR2(10) | dtn |
| 2 | SALES\_ORDER | VARCHAR2(50) | SON200120101761 |
| 3 | DOCUMENT\_NUMBER | VARCHAR2(50) | N9GIN20001590 |
| 4 | TRANSACTION\_DTTM | DATETIME | 2020-01-20 10:44:14 |
| 5 | CUSTOMER\_GROUP | VARCHAR2(20) | N9 |
| 6 | TRANSACTION\_TYPE | VARCHAR2(5) | A |
| 7 | TRANSACTION\_TYPE\_DESC | VARCHAR2(100) | Allocate |
| 8 | CUSTOMER\_CODE | VARCHAR2(20) | 1480 |
| 9 | PARTNER\_CODE | VARCHAR2(32) | 71089834 |
| 10 | CHANNEL\_TYPE\_CODE | VARCHAR2(20) | 13 |
| 11 | CHANNEL\_SUB\_TYPE\_CODE | VARCHAR2(20) | 1301 |
| 12 | PARTNER\_TYPE | VARCHAR2(20) | 130102 |
| 13 | PARTNER\_GROUP | VARCHAR2(50) | DTAC\_CENTER |
| 14 | RTR\_TYPE | VARCHAR2(20) | 765 |
| 15 | RTR\_SUB\_TYPE | VARCHAR2(20) | 1032 |
| 16 | DISCOUNT\_HEADER\_AMOUNT | NUMBER(38,2) | 0.00 |
| 17 | IMEI\_NUMBER | VARCHAR2(40) | 862435047128355 |
| 18 | SIM\_SERIAL | VARCHAR2(40) |  |
| 19 | PRODUCT\_CODE | VARCHAR2(32) | OPH0A920GN0 |
| 20 | UNIT\_PRICE | NUMBER(38,2) | 6955.00 |
| 21 | DISCOUNT\_LINE\_ITEM | NUMBER(38,2) | 0.00 |
| 22 | UNIT\_PRICE\_AFTER\_DISCOUNT | NUMBER(38,2) | 6955.00 |
| 23 | VAT\_AMOUNT | NUMBER(38,2) | 455.00 |
| 24 | TOTAL\_AMOUNT | NUMBER(38,2) | 39470.00 |
| 25 | SOURCE\_NM | VARCHAR2(20) | Discovery |
| 26 | CREATED\_DTTM | DATETIME | 2020-01-20 10:44:14 |
| 27 | CREATED\_BY | VARCHAR2(50) | osya10 |

##### DWO\_DCVRY\_EVOUCHER\_DISCOUNT

This feed provides Device discount by using e-voucher (in case of prevent invoice 0 baht)

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | CHANNEL\_SUB\_TYPE | VARCHAR2(70) | Service hall |
| 2 | REGION | VARCHAR2(120) | Postpaid |
| 3 | ZONE\_NAME | VARCHAR2(120) | BKK-East |
| 4 | CLUSTER\_NAME | VARCHAR2(120) | BKK-East0107 (BKK3) |
| 5 | WH\_CODE | VARCHAR2(80) | N03013 |
| 6 | WH\_NAME | VARCHAR2(275) | dtac center(COCO) ÊÕÅÁ¤ÍÁà¾Åç¡«ì |
| 7 | PARTNER\_CODE | VARCHAR2(70) | 78510201 |
| 8 | B2B\_ORDER\_DATE | DATETIME |  |
| 9 | B2B\_ORDER\_COST | NUMBER(18,2) |  |
| 10 | INVOICE\_NO | VARCHAR2(52) | REVN03013201063791 |
| 11 | INVOICE\_DATE | DATETIME | 2020-01-20 00:00:00 |
| 12 | BRAND | VARCHAR2(522) | HUAWEI |
| 13 | MODEL | VARCHAR2(522) | Huawei Y6S |
| 14 | SKU\_CODE | VARCHAR2(70) | HWH00Y6SBL0 |
| 15 | SKU\_NAME | VARCHAR2(1020) | Huawei Y6S Blue (HW-Y6S(BL)) |
| 16 | IMEI | VARCHAR2(120) | 865881041198885 |
| 17 | DEVICE\_STATUS | VARCHAR2(40) | Sell |
| 18 | PROMOTION\_CODE | VARCHAR2(275) | mav264395463 |
| 19 | PROMOTION\_NAME | VARCHAR2(275) | MNP Port in \*567\*122# discount 1500 & 1000 Baht |
| 20 | MSISDN | VARCHAR2(170) | 66877086950 |
| 21 | DISCOUNT | NUMBER(18,2) | 790.0000 |
| 22 | POS\_COST | NUMBER(18,2) | 3999.00 |
| 23 | ORDER\_NUMBER | VARCHAR2(70) | SON03013201075931 |
| 24 | COMPANY\_NAME | VARCHAR2(120) | ºÃÔÉÑ· ´Õá·¤ äµÃà¹çµ ¨Ó¡Ñ´ |

##### DWO\_DCVRY\_INVENTORYSTOCK

This feed provides Balance stock by partner and product

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | COMPANY\_CODE | VARCHAR2(10) | dtn |
| 2 | PRODUCT\_CODE | VARCHAR2(32) | BYH9123GBK0 |
| 3 | APPLE\_PRODUCT\_SKU | VARCHAR2(32) | Nonapple |
| 4 | WAREHOUSE\_CODE | VARCHAR2(50) | N01000 |
| 5 | STOCK\_AVAILABLE | VARCHAR2(38) | 0 |
| 6 | COST\_PER\_UNIT | NUMBER(38,2) | 0.00 |
| 7 | INVENTORY\_COST\_AMOUNT | NUMBER(38,2) | 0.00 |
| 8 | PARTNER\_CODE | VARCHAR2(32) |  |
| 9 | CHANNEL\_TYPE\_CODE | VARCHAR2(20) |  |
| 10 | CHANNEL\_TYPE\_NAME | VARCHAR2(60) |  |
| 11 | CHANNEL\_SUB\_TYPE\_CODE | VARCHAR2(20) |  |
| 12 | CHANNEL\_SUB\_TYPE\_NAME | VARCHAR2(60) |  |
| 13 | PARTNER\_TYPE\_CODE | VARCHAR2(20) |  |
| 14 | PARTNER\_TYPE\_NAME | VARCHAR2(60) |  |
| 15 | RTR\_TYPE\_CODE | VARCHAR2(20) |  |
| 16 | RTR\_TYPE\_NAME | VARCHAR2(60) |  |
| 17 | RTR\_SUB\_TYPE\_CODE | VARCHAR2(20) |  |
| 18 | RTR\_SUB\_TYPE\_NAME | VARCHAR2(60) |  |
| 19 | HQID | VARCHAR2(50) |  |
| 20 | INVENTORY\_DATE | DATE | 2020-01-20 |
| 21 | SOURCE\_NM | VARCHAR2(20) | Discovery |

##### DWO\_DCVRY\_MARGIN\_ANALYSIS

This feed provides Device sell in summary

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | INVOICE\_DATE | DATETIME | 2020-01-20 00:00:00 |
| 2 | SKU\_CODE | VARCHAR2(40) | ACHWCB00001 |
| 3 | SKU\_NAME | VARCHAR2(1020) | HUAWEI TYPE C DATA CABLE White (HW-TYPE-C-DATACABLE) 6901443176656 |
| 4 | ITEM\_GROUP | VARCHAR2(35) | ACCESSORY |
| 5 | COMPANY | VARCHAR2(24) | dtn |
| 6 | WAREHOUSE\_NAME | VARCHAR2(120) | dtac hall àÍçÁ¤ÇÍà·ÕÂÃì |
| 7 | QTY | NUMBER(18,2) | 1.00 |
| 8 | LINE\_AMOUNT | NUMBER(18,2) | 177.57 |
| 9 | LINE\_DISCOUNT | NUMBER(18,2) | 0.00 |
| 10 | AMOUNT\_COST | NUMBER(18,2) | 124.30 |
| 11 | CHANNEL\_SUB\_TYPE | VARCHAR2(60) | Service Hall |
| 12 | BRAND | VARCHAR2(60) |  |

##### DIM\_DCVRY\_PRODUCT\_CLASS

This feed provides Product classification master

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | PRODUCTGROUP\_CODE | VARCHAR2(20) | 1 |
| 2 | PRODUCTGROUP\_NAME | VARCHAR2(260) | SIM |
| 3 | PRODUCT\_CODE | VARCHAR2(20) | 646 |
| 4 | PRODUCT\_NAME | VARCHAR2(60) | SIM REPLACEMENT |
| 5 | PRODUCTTYPE\_CODE | VARCHAR2(20) | 647 |
| 6 | PRODUCTTYPE\_NAME | VARCHAR2(260) | DTN DUMMY(FOC) |

##### DIM\_DCVRY\_PRODUCT\_SKU

This feed provides Product master

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | COMPANYCODE | VARCHAR2(10) | ddm |
| 2 | PRODUCT\_CODE | VARCHAR2(32) | APPLEPENG20 |
| 3 | PRODUCT\_NAME | VARCHAR2(255) | Apple Pencil (2nd Generation) (MU8F2ZA/A) |
| 4 | COST\_AMOUNT | NUMBER(38,2) | 0.00 |
| 5 | EFFECTIVE\_DATE | DATETIME | 2018-11-02 14:00:00 |
| 6 | WARRANTY\_PERIOD | INTEGER | 0 |
| 7 | WARRANTY\_PERIOD\_UNIT | VARCHAR2(10) | Day |
| 8 | PRODUCT\_GROUP | VARCHAR2(20) |  |
| 9 | PRODUCT | VARCHAR2(20) |  |
| 10 | PRODUCT\_TYPE | VARCHAR2(20) |  |
| 11 | SUPPLIER | VARCHAR2(20) |  |
| 12 | SUPPLIER\_PRODUCT\_SKU | VARCHAR2(32) | MU8F2ZA/A |
| 13 | PRICE\_LIST | NUMBER(38,2) | 0.00 |
| 14 | UOM | VARCHAR2(10) | EA |
| 15 | CREATED\_DATE\_TIME | DATETIME | 2018-11-02 14:00:00 |
| 16 | LAST\_CHANGED\_DATE\_TIME | DATETIME | 2020-01-21 02:13:18 |

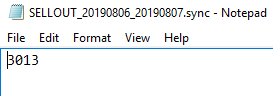
### Control Feed - Record Format

Following are the mapping of Raw data file and Feed control file associated with each.

| **Data File Name** | **Data File Extn** | **Control File Name** | **Control File Extn** | **Control File Format** |
| --- | --- | --- | --- | --- |
| SELLIN\_YYYYMMDD\_\* | .dat | SELLIN\_YYYYMMDD\_\* | .sync | 5 |
| SELLOUT\_YYYYMMDD\_\* | .dat | SELLOUT\_YYYYMMDD\_\* | .sync | 5 |
| ALLC\_<YYYYMMDD>\_\* | .dat | ALLC\_<YYYYMMDD>\_\* | .sync | 5 |
| EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\* | .dat | EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\* | .sync | 5 |
| INVENTORYSTOCK\_<YYYYMMDD>\_\* | .dat | INVENTORYSTOCK\_<YYYYMMDD>\_\* | .sync | 5 |
| MARGIN\_ANALYSIS\_<YYYYMMDD>\_\* | .dat | MARGIN\_ANALYSIS\_<YYYYMMDD>\_\* | .sync | 5 |
| PRODUCT\_CLASS\_<YYYYMMDD>\_\* | .dat | PRODUCT\_CLASS\_<YYYYMMDD>\_\* | .sync | 5 |
| PRODUCT\_SKU\_<YYYYMMDD>\_\* | .dat | PRODUCT\_SKU\_<YYYYMMDD>\_\* | .sync | 5 |

There are single type of control file structure being used on Device supply chain feeds as mentioned above

* Sample structure for Type # 5 of the control files-



It only preserves the record count.

### Privacy Columns/Business Rules

No data filtration and no exception handling for any columns. Direct one to one mapping and loading to ODS. Surrogate key will be generated only for MSISDN.

Only following type of fields will be encrypted while loading to ODS tables. Attached excel contains Device supply chain feed wise consolidations

* Group 1 - MSISDN / Subscriber Number /Phone no /Fax No
* Group 2 - IMSI\_IMEI
* Group 3 - ADDRESS
* Group 4 - Name
* Group 5 – ID Key
* Group 6 - Email
* Group 7 - Credit Card Number
* Group 8 - Bank Account ID



# Interface SLAs & Methods

## 4.1 Availability

Device supply chain related transaction and master data will be pulled daily once into AEP landing server from EDW- Landing server - pladius22. Schedule time is mentioned in the below table

| **#** | **Feed Name** | **File Name** | **Scheduling Time** | **AEP Landing path - Data files** | **AEP Landing path - Control files** |
| --- | --- | --- | --- | --- | --- |
| 1 | DCVRY\_SELL\_IN | SELLIN\_<YYYYMMDD>\_\*.dat | 10:00:00 AM | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |
| 2 | DCVRY\_SELL\_OUT | SELLOUT\_<YYYYMMDD>\*.dat | 10:00:00 AM | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |
| 3 | DCVRY\_ALLC | ALLC\_<YYYYMMDD>\_\*(ex. ALLC\_20190710\_\*.dat) | 05:38:48 | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |
| 4 | DCVRY\_EVOUCHER\_DISCOUNT | EVOUCHER\_DISCOUNT\_<YYYYMMDD>\_\*(ex. EVOUCHER\_DISCOUNT\_20190709\_\*.dat) | 05:38:51 | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |
| 5 | DCVRY\_INVENTORYSTOCK | INVENTORYSTOCK\_<YYYYMMDD>\_\*(ex. INVENTORYSTOCK\_20190710\_\*.dat) | 05:38:53 | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |
| 6 | DCVRY\_MARGIN\_ANALYSIS | MARGIN\_ANALYSIS\_<YYYYMMDD>\_\*(ex. MARGIN\_ANALYSIS\_20190709\_\*.dat) | 05:41:02 | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |
| 7 | DCVRY\_PRODUCT\_CLASS | PRODUCT\_CLASS\_<YYYYMMDD>\_\*(ex. PRODUCT\_CLASS\_20190709\_\*.dat) | 05:38:54 | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |
| 8 | DCVRY\_PRODUCT\_SKU | PRODUCT\_SKU\_<YYYYMMDD>\_\*(ex. PRODUCT\_SKU\_20190709\_\*.dat) | #N/A | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ | /<root>/SRC\_DATA/DISCOVERY/<YYYYMMDD>/ |

## 4.2 File Validation

Following are the high-level validations being performed on master and transaction data feeds -

1. Orphan File check
2. Duplicate file check
3. Zero byte check
4. Header and Trailer
5. Record Count
6. Delimiter check
7. MD5 file checksum check (Not applicable for DSC - Discovery)

### 4.2.1 Duplicate File Check

If the same file is received at landing area for the same day, the process has to mark it duplicate (FileName\_Duplicate.dat) and reject the file.

* Audit table will record name of each file. Compare the file name with previous 30 days filename (configurable), to identify duplicate files.
* Alerts for Duplicate file name to Source system owner over the email once a day (configurable).
* Move duplicate files in reject folder

### 4.2.2 Missing file from Source

An alert will be send to source owner if file is not received in given time frame.

In case of files which are coming in sequence and there is a sequence missing in file, an alert will be sent for missing file sequence.

Email Notification for missing file has been shared by DTAC as per below template



PS: Please refer Sec – 5 Appendix for email attachment.

### 4.2.3 Missing records or Incomplete File

Reconciliation can be done with source system as able to validate between feed file and control file available with every feed. Reconciliation can also be done based on source file wise count and the data loaded to ODS.

### 4.2.4 Alerts

An alert mechanism will be in place to notify source and business owners in case of deviation from processes.

An Email will be triggered to source owners when

* Less number of Files received in expected time.
* When Files will be pushed to rejected folder.

\*\*A Governance process will be set to address any issues in the file transfer process including manual intervention when necessary.

**Action to be taken by source owner after alert - Once Notification alert is sent, Source owner should check and resend the correct data within 4 hours after the receipt of alert.**

**Sample Email Content for Missing file :-**

|  |  |  |
| --- | --- | --- |
| Source System | Source Feed | File Name |
| DSC | DCVRY\_SELL\_IN | SELLIN\_<YYYYMMDD>\_\*.dat |

**For respective list of Feed wise file name refer to section 3.1.1**

**Sample Email Content for Reject file :-**

|  |  |  |  |
| --- | --- | --- | --- |
| Source System | Source Feed | File Name | Reject Reason |
| DSC | DCVRY\_SELL\_IN | SELLIN\_<YYYYMMDD>\_\*.dat | Name of file is not correct |

**For respective list of Feed wise file name refer to section 3.1.1**

**Sample Email for Less number of files.**

|  |  |  |  |
| --- | --- | --- | --- |
| Source System | Source Feed | Previous Day File Count | Today’s File Count |
| DSC | DCVRY\_SELL\_IN | 1 | 0 |

**For respective list of Feed wise file name refer to section 3.1.1**

### 4.2.5 Invalid file format

Files which don’t follow standards of file naming convention will be rejected. For example

* File name should exactly match with the name specified in sec 3.1.1.
* File should always have the .dat extension. Rest all other files with different extension will be rejected.

Refer the extension specified in sec 3.1.1.

### 4.2.6 Erroneous data

In case of any mandatory field missing, datatype mismatch, record separator is not proper, junk character coming in any field or file name is wrong, then file will not be processed. In such a case notification to be sent for error file and source system need to correct the file and push the correct file into EDW landing path to pull into AEP – Landing zone.

## 4.3 Source System Changes

In case of any changes in file format or data format, Source team will inform team well in advance. Any new column addition or changes in existing feed format will be considered as Change Request.

Guidelines for adding new columns are as follows:

**Addition/modification/deletion of columns in file:**

1. When new columns added after registered\* columns in the file. File handling process will ignore the newly added columns (until the columns are registered in the metadata table for that file ). File will not be rejected by the processes; however, these columns will be ignored for processing.
2. If columns are added in between registered\* columns the file will be rejected.
3. If number of columns received are lesser than registered\* columns the file will be rejected.

## 4.4 Unable to Collect or receive files from source

If the files are not received then after one hour<configurable> auto email alert will be sent to the source system owner.

## 4.5 Unavailability of Data Collection & Integration Layer

In case of unavailability of Data Collection and Integration layer, landing server will keep the files until Data Collection and Integration layer is restored.

However, in case of capacity issues DTAC will notify source owners, to stop pushing files to landing area and manage the files at source end until normalcy is restored.

## 4.6 Data Quality and Timeliness

It would be responsibility of DSC team to have some files/data level checks before files are made available Platform Consumption. Source system team will inform in case there is any issues in DSC provided files.

## 4.7 Exception Handling

Exception handling is subject to scenarios. Different scenarios will be handled differently:

All such files those are required to be reprocessed will be kept in the same source folder from where files are to be collected.

For source files which do not have date-timestamp, duplicate file identification will not be possible. In such case if source push the file twice then the previous file will get overridden and latest overridden file will be processed.  
  
For re-processing of a file which has already been processed and data loaded into tables in such a case we will delete / unload the data from tables by identifying the data based on FILE\_ID and LOAD\_DATE.  
  
In case the file gets pushed with different name then notification via email / or on call will be sent so that the file can be considered for re-processing.

# Appendix



### Email Notification for missing file:

